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**ABSTRACT OF THE DISCLOSURE**

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The subject invention is directed to the treatment of respiratory disorders by intratracheal administration of an effective amount of lysozyme. Respiratory disorders include emphysema, pneumonia, respiratory distress syndrome, bronchopulmonary dysplasia, interstitial fibrosis, cystic fibrosis, and neoplasia. The treatment is intended for a variety of animals, such as premature neonates to adult humans. Administration of lysozyme may be performed by aerosol, which can be generated by a nebulizer or by instillation. The lysozyme may be administered alone or with a carrier such as saline solution, DMSO, and alcohol, or water. It may also be used as a vehicle for the intratracheal administration of drugs or other agents to the lung. The lysozyme may be isolated from a natural source, such as eggs, or synthesized by a bioprocess, such as fermentation. The effective daily amount of lysozyme is from about 10  $\mu\text{g/kg}$  to about 1  $\text{mg/kg}$  of body weight.